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Agriculture

Forest
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FILE CODE: 1900 Planning
2880 Geologic Resources and Services

September 20, 2004

SUBJECT: Diamond Lake Restoration Project NEPA
Environmental Effects, Alternative 5 DEIS
Addendum to Geologic Specialist Report

TO: Sherri Chambers, IDT Leader

Re: September 15, 2004 request from Sherri Chambers for addendum to original specialist report to address environmental effects associated with new alternative 5.

Discussion . . .

Alternative 5 (Modified Rotenone and Stocking) is similar to Alternative 2 (Proposed Action) and Alternative 3 (Put and Take Fishery) in that it likewise includes draw-down of Diamond Lake to enhance the effectiveness of chemical treatment (Rotenone) for the purpose of reducing (eradicating) existing tui chub populations. Alternative 5 differs substantially from Alternatives 2 and 3 in that liquid Noxfish® will also be utilized in addition to powdered Pro-Noxfish® for chemical treatment. Alternative 5 also entails a post-treatment fish stocking strategy described by ODFW after publication of the DEIS. Under Alternative 5 draw down of Diamond Lake would be to the same level as that cited under Alternatives 2 and 3, and there would be no net increase or decrease in the amount of discharge (outflow) entering into Lake Creek. Increasing the concentration of Rotenone treatment and adopting a different fish stocking strategy are designed to maximize tui chub mortality relative to all other action alternatives.

As there are no discernible differences in the timing, volume, or duration of daily mean flows that would pass down Lake Creek with implementation Alternative 5 relative to the other action alternatives that include draw-down, the direct, indirect, and cumulative environmental effects associated with these three action alternatives are considered to be the same. Disclosure of the anticipated environmental effects stemming from fluvial and mass-wasting erosion, and the associated potential for alteration to stream channel morphology within Lake Creek have previously been discussed in the DEIS.

/s/ Larry Broeker
Geologist